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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,638	07/22/2003	Donald Joong	P17370US2	5190
7590 10/26/2007				
ALEX NICOLAESCU		EXAMINER		
Ericsson Canada Inc.		ALMEIDA, DEVIN E		
Patent Department (LMC/M/P)				
8400 Decarie Blvd.		ART UNIT PAPER NUMBER		
Town Mount Royal, QC H4P 2N2		2132		
CANADA				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary	Application No. 10/623,638	Applicant(s) JOONG ET AL.	
	Examiner Devin Almeida	Art Unit 2132	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>See Continuation Sheet</u> . | 6) <input type="checkbox"/> Other: _____ |

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :7/22/2003, 7/23/2004, 3/14/2006.

DETAILED ACTION

This action is in response to the papers filed 7/22/2003. Claims 1-13 were received for consideration. Preliminary amendment to the claims was filed 4/05/2004. Currently claims 1-13 are under consideration.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 7/22/2003, 7/23/2004, and 3/14/2006 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claim 1-13 are rejected under 35 U.S.C. 102(a) as being anticipated by Benenati et al "A Seamless Mobile VPN Data Solution for CDMA2000, * UMTS, and WLAN Users". With respect to claim 1 Benenati teaches a method for integrating a Wireless Local Area Network (WLAN) and a Wireless Wide Area Network (WWAN) (see page 145 right hand column line 11 – page 146 left hand column line 16), the method comprising steps of: receiving at a WLAN Serving Node (WSN) a Remote Authentication Dial-In User Service (RADIUS) Request message from an Access Point

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(AP), the RADIUS Request message including credentials of a terminal (see page 151 left hand column line 35 – page 151 right hand column line 19); proxying at a RADIUS proxy capability of the WSN the RADIUS Request message (see page 151 left hand column line 35 – page 151 right hand column line 19); authenticating the terminal at the WSN using the terminal's credentials (see page 151 left hand column line 35 – page 151 right hand column line 19); and managing at the WSN charging operations for the terminal (see page 148 right hand column line 3 – page 151 left hand column line 18).

With respect to claim 2, locating in the WWAN a Home-Authentication, Authorization, and Accounting (Home-AAA) server (see figure 2); sending a RADIUS Request message from the WSN to H-AAA, the RADIUS Request message including the terminal's credentials; authenticating the terminal at the Home-AAA; and sending from the Home-AAA to the WSN a RADIUS Request message, the RADIUS Request message including a key information (see page 148 right hand column line 3 – page 151 left hand column line 18).

With respect to claim 3, receiving the key information at the WSN; and sending from the WSN to the AP a RADIUS Accept Response message, the RADIUS Accept Response message including a key information (see page 148 right hand column line 3 – page 151 left hand column line 18).

With respect to claim 4, generating a key at the WSN for encrypting and decrypting traffic of packet data between the WSN and the terminal (see page 149 right hand column lines 4-13 i.e. Internet key exchange).

With respect to claim 5, sending from the AP to the terminal an Extensible Authentication Protocol (EAP) Request message; and receiving at the AP an EAP Response from the terminal (see page 151 right hand column line 30 – page 152 left hand column line 39).

With respect to claim 6, granting access to the WLAN to the terminal; and sending an EAP Success message from the AP to the terminal (see page 151 right hand column line 30 – page 152 left hand column line 39).

With respect to claim 7, starting counters in the WSN; and sending accounting information from the WSN to the Home-AAA (see page 148 right hand column line 3 – page 151 left hand column line 18).

With respect to claim 8, a Wireless Local Area Network Serving Node (WSN) for authenticating a terminal, the WSN for performing the following method: receiving a Remote Authentication Dial-In User Service (RADIUS) Request message from an Access Point (AP), the RADIUS Request message including terminal's credentials (see page 151 left hand column line 35 – page 151 right hand column line 19); proxying the RADIUS Request message at a RADIUS proxy capability (see page 151 left hand column line 35 – page 151 right hand column line 19); authenticating the terminal using the terminal's credentials (see page 151 left hand column line 35 – page 151 right hand column line 19); and managing charging operations for the terminal (see page 148 right hand column line 3 – page 151 left hand column line 18).

With respect to claim 9, the WSN is further capable of: locating in the WWAN Home-Authentication, Authorization, and Accounting (Home-AAA) server; and sending

to the Home-AAA a RADIUS Request message, the RADIUS Request message including the terminal's credentials (see page 148 right hand column line 3 – page 151 left hand column line 18).

With respect to claim 10, the WSN is further capable of receiving from the Home-AAA a RADIUS Response message, the RADIUS Response message including a key information (see page 148 right hand column line 3 – page 151 left hand column line 18).

With respect to claim 11, the WSN is further capable of using the key information for generating a key for encrypting and decrypting traffic of packet data between the WSN and the terminal (see page 149 right hand column lines 4-13 i.e. Internet key exchange).

With respect to claim 12, the WSN is further capable of: sending a RADIUS Response message to the AP, the RADIUS Response message, the RADIUS Response message including key information (see page 151 right hand column line 30 – page 152 left hand column line 39).

With respect to claim 13, the WSN is further capable of: starting counters for accounting; and sending accounting information to the H-AAA (see page 148 right hand column line 3 – page 151 left hand column line 18).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devin Almeida whose telephone number is 571-270-

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1018. The examiner can normally be reached on Monday-Thursday from 7:30 A.M. to 5:00 P.M. The examiner can also be reached on alternate Fridays from 7:30 A.M. to 4:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron, can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DA

Devin Almeida
Patent Examiner
1/24/2007



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